

Levo, Brian

From: Eberl, Steve (ECY) <SEBE461@ECY.WA.GOV>
Sent: Tuesday, September 24, 2019 1:44 PM
To: Levo, Brian
Cc: Maloy, Carol (ECY); Krembs, Christopher (ECY); McKinzi, Adonia (ECY); Pacifico, Marc (ECY); Hancock, Kevin (ECY)
Subject: FW: Port Angeles Harbor Water Discoloration
Attachments: 0922191324.jpg; 0922191327.jpg; 0922191312.jpg; 0922191312a.jpg

Hi Brian,

I contacted our marine monitoring manager Carol Maloy who thought this is most likely an algae bloom. Carol provided a link to our web site below that has more specific information. If you have further questions on marine algae blooms I recommend asking our senior oceanographer Christopher Krembs. His email is in the cc line.

Regards,
Steve

From: Maloy, Carol (ECY) <cfal461@ECY.WA.GOV>
Sent: Tuesday, September 24, 2019 1:30 PM
To: Eberl, Steve (ECY) <SEBE461@ECY.WA.GOV>; Krembs, Christopher (ECY) <ckre461@ECY.WA.GOV>
Subject: FW: Port Angeles Harbor Water Discoloration

Hi Steve,

I think this might be *Noctiluca*, which has a characteristic tomato soup appearance. You can see more photos here for reference: <https://ecology.wa.gov/Research-Data/Monitoring-assessment/Puget-Sound-and-marine-monitoring/Marine-algae-plankton>

But I think our senior oceanographer, Christopher Krembs, could give you his opinion.

Thanks,
Carol

From: Eberl, Steve (ECY)
Sent: Tuesday, September 24, 2019 10:11 AM
To: Maloy, Carol (ECY) <cfal461@ECY.WA.GOV>
Subject: FW: Port Angeles Harbor Water Discoloration

Hi Carol,

I'm not sure you are the right person to ask, but EPA Region 10 staff observed some significant red color in Port Angeles Harbor last weekend. Do you have any ideas of what would cause the conditions shown in these 4 photos? The former Ecology stormwater permit manager, Kevin Hancock, has never seen the water appear like this.

If there is no algal bloom you are aware of we might ask the Port of PA to explain what they think this is.

Thanks,
Steve

Steven G. Eberl, P.E.
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Washington State Department of Ecology
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sebe461@ecy.wa.gov

From: Eberl, Steve (ECY)
Sent: Tuesday, September 24, 2019 8:07 AM
To: McKinzi, Adonia (ECY) <admc461@ECY.WA.GOV>
Cc: Hancock, Kevin (ECY) <KHAN461@ECY.WA.GOV>
Subject: FW: Port Angeles Harbor Water Discoloration

Hi Adonia,
Take a look at the attached photos and let me know what you think.

Kevin,
Have you seen these conditions in Port Angeles before?

Thanks,
Steve

From: Levo, Brian <Levo.Brian@epa.gov>
Sent: Tuesday, September 24, 2019 7:45 AM
To: Eberl, Steve (ECY) <SEBE461@ECY.WA.GOV>
Cc: Pacifico, Marc (ECY) <mpac461@ECY.WA.GOV>
Subject: FW: Port Angeles Harbor Water Discoloration

Hi Steve, (b) (6), (b) (7)(C) in Port Angeles over the weekend and had some questions about the water in the Port Angeles Harbor and I wanted to see what thoughts you have. See the message below and attached photos.

Thanks,

Brian Levo
NPDES Enforcement Coordinator
Surface Water Enforcement Section
U.S. Environmental Protection Agency - Region 10
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From: (b) (6), (b) (7)(C)
Sent: Monday, September 23, 2019 9:12 AM
To: Gebhardt, Chris <Gebhardt.Chris@epa.gov>
Subject: Port Angeles Harbor Water Discoloration

Chris:

I was in Port Angeles yesterday (b) (6), (b) (7)(C) and noticed that virtually all of Port Angeles Harbor had a reddish tint that appeared to potentially be an algal bloom. Any ideas on what this could be? Is it worth follow-up? I lived in PA for a year and have never seen anything like this.

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

